

COVID-19: FROM THE FRONT LINES

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Disclosures

- Micro-tech Guage Endoscopic Measurement Device (Napoleon): Intellectual Property
- AccumarkDx: Advisory board



A Tsunami arrived in New York City

- COVID19: like a Tsunami hitting New York City
- Required an "All hands on deck" approach
- First: volunteers, then quickly reassignment:
 - "Choose what you are comfortable with"
- 3/30/20: The COVID Army is born
 - COVIDArmy@NYULangone.Org



https://www.911memorial.org/visit/memorial/tribute-light

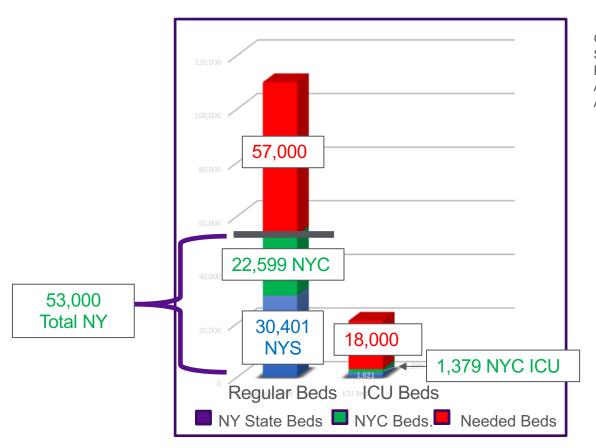


From Movie, "The Day After Tomorrow"



Projected Needs for Hospital and ICU Beds in New York State - March 2020

https://profiles.health.ny.gov/hospital/bed_type/Total+Beds

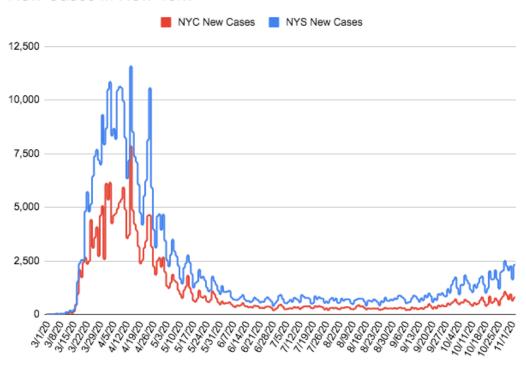


Gross S, Robbins D, Greenwald D, Schnoll-Sussman F, Pochapin M
Preparation In The Big Apple: New York City,
A New Epicenter of the COVID-19 Pandemic,
Am J Gastroenterol, 2020 Jun;115(6):801-804



NEW YORK FLATTENED THE CURVE

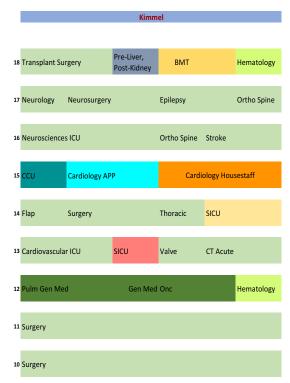
New Cases in New York





NYU Langone: Pre-COVID Stacking Plan







NYU Langone 4/4/20 Stacking Plan







SOUTH





COVID Medical Beds

COVID ICUs



Letter To Faculty: 3/27/20

Dear Colleagues: 3/27/20

During this unprecedented time in modern medicine, our hospitals are faced with a challenge unlike any in our lifetimes. In response we must change our approach to the clinical care of our patients and the well-being of our colleagues.

We have entered a crucial phase of the pandemic as our hospitals fill with COVID19 positive patients and individuals under investigation. Additional wards have been opened at each of our hospitals to accommodate the surge of patients. This has placed increasing demand on both critical care teams as well as the hospitalists. In addition to retraining and redeploying all those with critical care experience, we are going to need all other physicians to contribute to the care of our hospitalized medical patients.

In order to address this situation, we will need to identify faculty to work in the hospital with house staff and advanced practice providers to provide medical care to our in-patients. We therefore reach out to each of you so that we can identify a pool of physicians who we may need to call upon during this extraordinary period. We are creating a system of specific physician "waves" to be called upon as the need arises. The first wave is currently being filled by all those trained in critical care to help extend the capacity of the ICUs. The next waves of physicians will help care for the non-ICU medical patients in the hospital.

In order to move forward, we ask that you click on the following link to complete a survey to assess training background and experience https://redcap.nyumc...

(NOTE: all faculty are required to fill this out). We will schedule a WebEx in the next few days to further discuss this proposal.

If you personally fall into a high-risk category, there are options of service that will not put you in direct patient contact. However, in order to get control of this escalating COVID-19 pandemic in New York City we are going to need all hands on deck.

We are calling on each of you for your help, so that we can meet the challenge that is facing our community with grit, resiliency and pride.

Thank you.

Steven Abramson MDChair, Department of Medicine

Mark Pochapin MD Vice Chair, Clinical Affairs, Department of Medicine



Two Tiers of the COVID Army

- Medical Attending
 - Acting as a hospitalist
 - Interns, resident, APPs
 - Responsible for overall medical management and clinical decisions
 - 12-15 patients
 - Internal medicine trained (often subspecialist)
- Supplemental medical attendings (Super Residents)
 - Part of a team of other supplemental medical attendings and housestaff
 - Overseen by a hospitalist
 - Average of 5 patients
 - Surgeons, Ophthalmologists, Dermatologists, OB/GYN



Draft Card:

Sent to all faculty in the Department of Medicine

- General Medical Floor
 - Lead Attending: Acted as hospitalist in charge of the floor
 - Supplemental Attending: Acted as "super residents" reporting to hospitalist on the floor
- ICU
 - Primary ICU Attending
 - Supplemental ICU attending
- Other

Do you have experience working in Critical Care? Yes * must provide value No reset Are you willing to be trained for Critical Care Yes Medicine? No * must provide value reset Please indicate the following roles in which you would Lead Attending of a General Medicine be comfortable performing (select all that apply): floor ICU providers must be comfortable managing vented Supplemental General Medicine patients and patients in shock. Attending * Primary ICU Attending *Responsibilities might include writing notes, calling Supplemental ICU Attending ** consults, admitting and discharging patients, seeing a Other small number of stable patients, etc. You will have a hospitalist to assist with tasks and with Inpatient Epic navigation/documentation. **Responsibilities might include writing notes, calling consults, etc. You will not be responsible for ventilation monitoring and you will always have a hospitalist of ICU attending to assist with tasks and with Inpatient Epic navigation/documentation. Must be comfortable working with vented patients and patients in shock. * must provide value

Are you willing to work nights?

* must provide value

Yes

No

reset

Waves approach

- Waves 1-3: ICU Coverage
- Wave 4: Internal Medicine, APPs, Fellows promoted to attendings, and other Internal Medicine specialists
- Wave 5: Non-Internal Medicine Specialists and APPs including
 - Surgeons of all subspecialities
 - Ophthalmologists
 - Dermatologists
 - OB/GYN
 - Pediatrics
 - Neurology
 - Radiology
- Wave 6: Early Medical School Graduation
- Other Help: Physicians/Nurses/PAs from outside New York City

Preparation in the Big Apple: New York City, a New Epicenter of the COVID-19 Pandemic

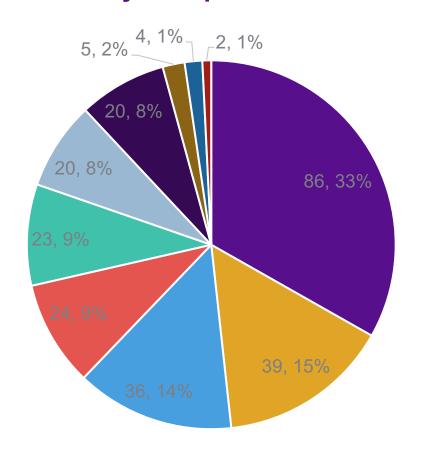
Seth A. Gross, MD1, David H. Robbins, MD, MSc2, David A. Greenwald, MD3, Felice H. Schnoll-Sussman, MD4 and Mark B. Pochapin, MD1

Am J Gastroenterol 2020;115:801-804. https://doi.org/10.14309/ajg.00000000000636; published online May 13, 2020

Table 2. Department of medicine redeployment model	
Wave 1 ICU	Critical care-trained physicians currently not practicing in ICUs and nonmedical ICU intensivists (pulmonologists trained in critical care, anesthesia trained in critical care, cardiologists who cover the CCU, and surgeons who cover the surgical ICU)
Wave 2 ICU	Young physicians and volunteer senior fellows who receive additional training in ICU procedures and ventilator management. These physicians are board-certified in internal medicine and just a few years out from their ICU experience as residents.
Wave 3	Hospitalists who received additional ICU training
Wave 4 Medical floors	Internists and subspecialists (gastroenterologists) who will act as medical attendings to backfill the vacant hospitalist positions.
CCU, cardiac care unit; ICU, intensive care unit.	



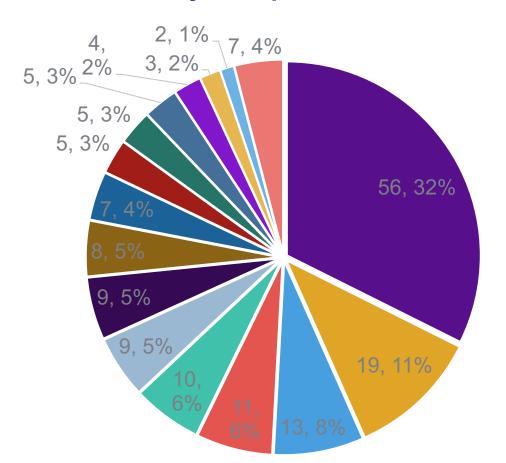
The COVID Army Composition: Medicine Attendings = 259



- General Internal Medicine
- Pulmonary Critical Care
- Cardiology
- Gastroenterology
- Hematology & Oncology
- Rheumatology
- Endocrinology, Diabetes, Obesity, Metabolism
- Geriatrics



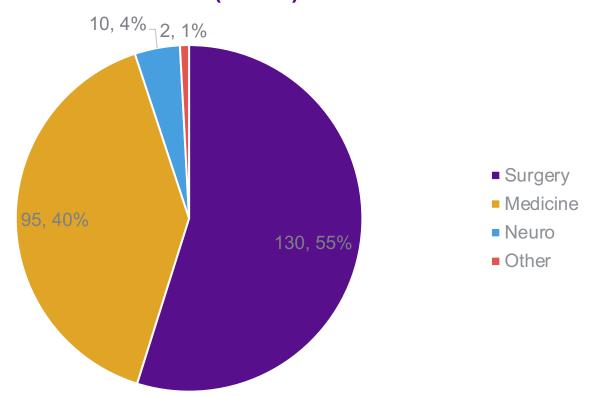
The COVID Army Composition: Non-Medicine Attendings = 173



- Orthopedic Surgery
- Surgery
- Ophthalmology
- Urology
- Pediatrics
- OB/GYN
- Anesthesiology
- Vascular Surgery
- Plastic Surgery
- Neurology
- Cardiothoracic Surgery
- Radiology
- Transplant Surgery
- Neurosurgery
- Dermatology
- Other

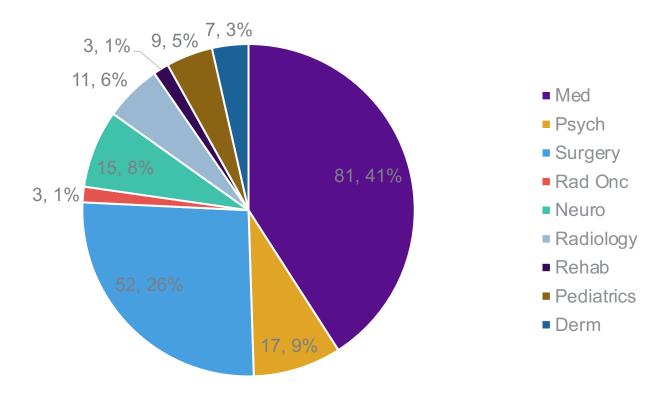


The COVID Army Composition: Advanced Practice Providers (APPs) = 238





The COVID Army Composition: Residents = 198

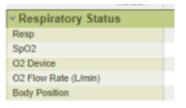








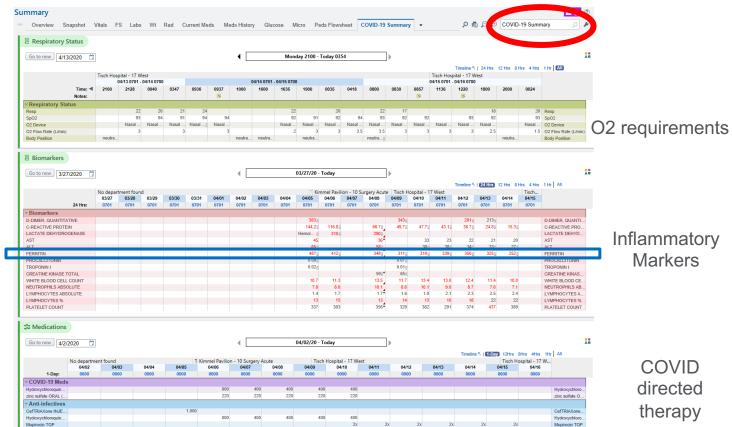
EMR COVID Dasboard



V Biomarkers
D-DIMER, QUANTITATIVE
C-REACTIVE PROTEIN
LACTATE DEHYDROGENASE
AST
ALT
FERRITIN
PROCALCITONIN
TROPONIN I
CREATINE KINASE TOTAL
WHITE BLOOD CELL COUNT
NEUTROPHILS ABSOLUTE
LYMPHOCYTES ABSOLUTE
LYMPHOCYTES W
PLATELET COUNT



neomycin/bacitraci.



neomycin/baci...





TIME



My job up until yesterday was actually getting people together,

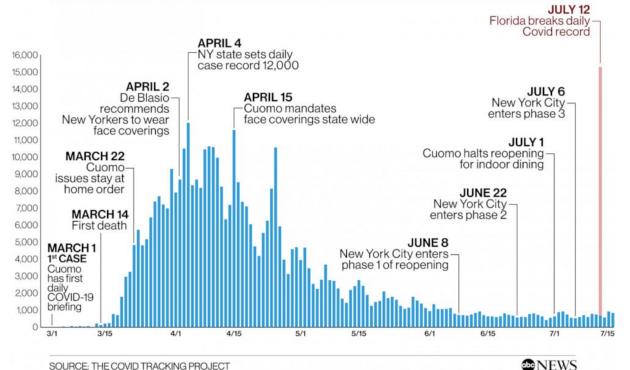
COVID Army

- Strong leadership: Clear steps to take
- Central coordination with ability to grow and adapt
- Meticulous management of spread sheets of all faculty and their locations
- Daily huddles among COVID Army leadership among all hospitals.
- · Preparatory email explaining all the necessary resources to prepare
- Pool of extras reservists ready to go at a moments notice as faculty themselves were getting exposed or becoming COVID positive
- Need to address and recognize Anxiety, Fear and Stress
 - Adequate PPE
 - Sufficient training and supervision
 - Mental health professionals and resources





New York's Covid Timeline



New Cases in New York

12,500

10,000

7,500

2,500

2,500

https://gothamist.com/news/coronavirus-statistics-tracking-epidemic-new-york



The COVID curve in NY remains relatively flat

- Masks are required by executive order
- Distancing: No indoor restaurants or bars
- Testing: Availability with rapid result turn around and quarantine and contact testing
- Strong leadership with frequent communication



"New Yorkers saw the devil in its face"
Tony Fauci



Leadership Principles

Crisis





Critically Important Leadership Principles for Crisis Management

- Authenticity
- Vulnerability
- Transparency what you know and don't know
- Communication:
 - Frequent
 - Clear and definitive
 - Tone: Serious but optimistic
- Focus on success and recognize outstanding efforts
- Look at everything you are doing, and then ask how you can do better
- Learn from others who have gone through this before (Wuhan, Italy, NYC)



Professional Societies

- GI societies were unified for joint statements with clear recommendations
- PPE and Testing Recommendations
 - ACG

ACG Strategies:

- Weekly Zoom meetings with ACG Board of Trustees
- Rapid review of literature and publication
- Frequent updates and presidential messages to members
- Engage special task forces and committees
- Social media presence
- Special Webinars
- Virtual Grand Rounds





On March 15th, the four U.S. Based Gastroenterology Societies published a joint statement with recommendations for Community Gastroenterologists and Gastroenterology Care Providers.

The full document and other resources can be found at gi.org/COVID19

Member Alert

from the following organizations:









JOINT GI SOCIETY MESSAGE: COVID-19 Clinical Insights for Our Community of Gastroenterologists and Gastroenterology Care Providers

The situation involving the COVID-19 pandemic continues to evolve. There is recent evidence suggesting the potential for coronavirus transmission through droplets and perhaps fecal shedding $^{1,\,2}$, posing potential risks during endoscopy and colonoscopy to other patients, endoscopy personnel, and ourselves.

We provide below important information as well as recommendations to consider in your institutions and practices that provide endoscopy and outpatient GI services:





90%
drop in colonoscopies
and biopsies by
mid-April compared
to same period in 2019

estimated
missed or delayed
diagnoses of CRC
from early March
through early June

1.7M missed colonoscopies 4,500+
excess deaths
from CRC over
next decade

https://nccrt.org/resource/a-playbook-for-reigniting-colorectal-cancer-screening-as-communities-respond-to-the-covid-19-pandemic/





COVID-19: A Roadmap to Safely Resuming Endoscopy

An update on the latest developments and practical tips for your endoscopy center



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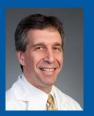
Louis J. Wilson, MD, FACG



Melissa Latorre, MD, MS



Whitfield Knapple, MD, **FACG**



Jeffrey L. Nestler, MD, **FACG**



PPE DECISION TREE **COVID TESTING** Low Prevalence Area/ Negative Rapid Test/ **Negative Symptom** Screen Low Prevalence Consider standard precautions (surgical masks, face shields, gloves, gowns) Low Prevalence Area/ No Rapid Test/ **Negative Symptom** Screen N95 or elastomeric mask (EM) if available **GI ASC Patient** Face shields/gowns/Allow High Prevalence Area/ time for donning/doffing Negative Or No Rapid Test/ Negative Symptom Screen High Prevalence **N95** Hospital if procedure is required with N95 High Or Low or EM mask Prevalence Area/ positive Rapid Test Or Positive Symptom Screen **NYU Langone** - Health

Resiliency is Critical

It makes us stronger

Resiliency

In many ways, as it turned out, my entire life up to that moment has been a preparation to handle that particular moment.

I had to force myself to use my training and – and force calm on the situation.



- Captain Chesley "Sully" Sullenberger

"Miracles occur when everybody performs at their absolute best"

- Phil Katz, Past ACG President



COVID-19 War: We are the soldiers in this war

- COVID Army, Reservists, Recruitment, Deployment...
- It is like real battle with 3 additional elements:
 - 1. We are fighting this battle on our home turf
 - 2. If we get hit by a bullet, we may not know about it for a week
 - 3. We may bring that bullet home to our family



What must we address?

- Our feelings:
 - Stress, anxiety, worries and concerns
 - It is not a weakness to look for strategies to help address stress.
 - On the contrary: It is a sign of resiliency!
- Processing our feelings now will avoid complications later such as PTSD
- The military has a system of "Battle Buddies"
 - Create a buddy system to watch each other, check in and
 - Drag somebody out when they are going down the rabbit hole of increasing work and decreasing sleep
 - Formula for burnout, depression and suicidal ideation



Do not be afraid to ask for help!







Gratitude is strength

And an antidote



COVID Army Thank You Letter and Pin



Steven B. Abramson, M.D. Chair, Department of Medicine Executive Vice President and Vice Dean for Education, Faculty and Academic Affairs

June 29, 2020

Mark Pochapin, MD 400 East 52nd Street Apt 6 F/G New York, NY 10022

Dear Dr. Mark Pochapin,

We are sending you this letter of appreciation for your selfless dedication to our patients during the COVID-19 surge in New York City.

On March 19, we sent an email that we had entered a crucial phase of the pandemic, as our hospitals filled with COVID19 positive patients, and that Tisch Hospital was in need of additional physicians to join in their care. The number of COVID patients approached 500, over 30% of whom required ICU care. By early April the numbers of patients and newly opened ICUs exceeded the capacity of our hospitalists and intensivists, who themselves were working six days of seven.

Amidst this crisis, you stepped forward and joined the COVID Army, 300 strong, bringing your skills as physicians to the care of hospitalized patients. For the great majority, it had been years since you had attended on an inpatient service, and of course never in the setting of a pandemic that was unprecedented in modern medicine. You came to the "frontlines," donned PPE, took personal risk and provided essential care for patients in dire need.

Your participation as a member of the COVID Army was a critical, unique and selfless contribution to the history of our institution, without which we would not have met the challenge that faced our patients and our community.

We are forever grateful.

Sincerely,

Steven B. Abramson, MD Chair, Department of Medicine

Brian Bosworth, MD, FACG Chief of Medicine, Tisch Hospital NYU Langone Health MB Portin

Mark Pochapin, MD Vice Chair for Clinical Affairs Director, Division of Gastroenterology and Hepatology Department of Medicine





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The future ain't what it used to be

Yogi Berra



The COVID Army Future

- We have contingency plans for all hospitals
 - Floors that can be converted to COVID units
 - ICU doctors who can staff expanded ICUS
 - Medical doctors who can staff COVID medical units
- We are watching our hospital and ICU admissions: They are slowly increasing
- We are closely following the rate of COVID positivity



COVID Front Lines Summary

- Strong leadership = Authenticity
- Frequent communication is essential
- Create a COVID Army contingency plan and reservists
- · Create plans to accommodate a COVID surge: Can use a waves approach
- Recognize and address fear, anxiety and stress and have mental health specialists standing by. Create a system of "Battle Buddies"
- Until a vaccine arrives, we must flatten the curve with masks, distancing, washing hands, staying outdoors and contact tracing/testing
- Be authentic and honest, but stay positive
- Look towards the professional societies for guidance: PPE and testing
- People are more resilient than you think
- Gratitude is strength



Even Superman cannot do what healthcare professionals do!

The Artist: Josef Lee Reproduced with permission

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THANK YOU

Mark.Pochapin@NYULangone.org

